6.824 Schedule: Spring 2022

E25-111, TR1-2:30

Here is the tentative schedule of lectures and due dates. The lecture notes and paper questions for future dates are copies from previous years, and may change. Lectures are in E25-111, Tues/Thurs 1:00 to 2:30.

Monday	Tuesday	Wednesday	Thursday	Friday
jan 31 *First day of classes*	feb 1 **LEC 1:** Introduction, video **Preparation:** Read MapReduce (2004) **Assigned:** Lab 1: MapReduce	feb 2	feb 3 **LEC 2:** RPC and Threads, crawler.go, kv.go, vote examples, video **Preparation:** Do Online Go tutorial (FAQ) (Question)	feb 4
feb 7	feb 8 **LEC 3:** GFS, video **Preparation:** Read GFS (2003) (FAQ) (Question) **Assigned:** Lab 2: Raft	feb 9	feb 10 **LEC 4:** Primary-Backup Replication, video **Preparation:** Read Fault-Tolerant Virtual Machines (2010) (FAQ) (Question)	feb 11 **DUE:** Lab 1
feb 14	feb 15 **LEC 5:** Fault Tolerance: Raft (1), video **Preparation:** Read Raft (extended) (2014), to end of Section 5 (FAQ) (Question)	feb 16	feb 17 **LEC 6:** Debugging **Preparation:** Read Debugging by Pretty Printing (Question)	feb 18 **DUE:** Lab 2A
feb 21 President's day	feb 22 *Monday schedule*	feb 23	feb 24 *Hacking day, no lecture*	feb 25 **DUE:** Lab 2B
feb 28	mar 1 **LEC 7:** Fault Tolerance: Raft (2), video **Preparation:** Read Raft (extended) (2014), Section 7 to end (but not Section 6) (FAQ) (Question) **Assigned:** Final Project	mar 2	mar 3 **LEC 8:** Q&A Lab2 A+B **Preparation:** (Question)	mar 4 **DUE:** Lab 2C *ADD DATE*
mar 7	mar 8 **LEC 9:** Zookeeper, video **Preparation:** Read ZooKeeper (2010) (FAQ) (Question) **Assigned:** Lab 3: KV Raft	mar 9	mar 10 **LEC 10:** Chain Replication, video **Preparation:** Read CR (2004) (Question)	mar 11 **DUE:** Lab 2D
mar 14	mar 15 **LEC 11:** Distributed Transactions, video **Preparation:** Read 6.033 Chapter 9, just 9.1.5, 9.1.6, 9.5.2, 9.5.3, 9.6.3 (FAQ) (Question)	mar 16	mar 17 **Mid-term Exam, E25-111, 1:00pm** **Materials:** Open book, notes, laptop **Scope:** Lectures 1 through 10, Labs 1 and 2 Old Exams	mar 18 **DUE:** Project proposals (if you are doing a project)
mar 21 Spring break	mar 22 Spring break	mar 23 Spring break	mar 24 Spring break	mar 25 Spring break

Monday	Tuesday	Wednesday	Thursday	Friday
mar 28	mar 29 **LEC 12:** Cache Consistency: Frangipani, video **Preparation:** Read Frangipani (FAQ) (Question) **Assigned:** Lab 4: Sharded KV	mar 30	mar 31 **LEC 13:** Spanner, video **Preparation:** Read Spanner (2012) (FAQ) (Question)	apr 1 **DUE:** Lab 3A
apr 4	apr 5 **LEC 14:** Optimistic Concurrency Control, video, video cont. **Preparation:** Read FaRM (2015) (FAQ) (Question)	apr 6	apr 7 **LEC 15:** Big Data: Spark, video **Preparation:** Read Spark (2012) (FAQ) (Question)	apr 8 **DUE:** Lab 3B
apr 11	apr 12 **LEC 16:** Cache Consistency: Memcached at Facebook, video **Preparation:** Read Memcached at Facebook (2013) (FAQ) (Question)	apr 13	apr 14 **LEC 17:** Causal Consistency, COPS, video **Preparation:** Read COPS (2011) (Question)	apr 15 **DUE:** Lab 4A
apr 18 Patriot's day	apr 19 ***DROP DATE*** *Hacking day, no lecture*	apr 20	apr 21 *Hacking day, no lecture*	apr 22
apr 25	apr 26 **LEC 18:** Fork Consistency, SUNDR, video **Preparation:** Read SUNDR (2004) (until Section 3.4) (FAQ) (Question)	apr 27	apr 28 **LEC 19:** Peer-to-peer: Bitcoin, video **Preparation:** Read Bitcoin (2008), and summary (FAQ) (Question)	apr 29
may 2	may 3 **LEC 20:** Blockstack, video **Preparation:** Read BlockStack (2016) (FAQ) (Question)	may 4	may 5 **LEC 21:** Smart Contracts, Billboard.sol, Casino.sol **Preparation:** Read Ethereum White Paper (2014) (Question)	may 6 **DUE:** Lab 4B **DUE:** Project reports and code
may 9	may 10 **LEC 22:** Project demos, video *Last day of classes*	may 11	may 12	may 13 **Final exam**, E25-111, 1:30pm to 3:30pm (2 hours) **Materials:** Open book, notes, and laptop. **Scope:** Lectures 11 through 21, Lab 3. Old Exams

For questions or comments, email 6824-staff@lists.csail.mit.edu.

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